



IPW
PATENT

Case Docket No. GYRO.008A
Application No. 10/823,091

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants : Roger Ekseth et al.
Appl. No. : 10/823,091
Filed : April 13, 2004
For : SYSTEM AND METHOD FOR
USING MICROGYROS TO
MEASURE THE ORIENTATION
OF A SURVEY TOOL WITHIN
A BOREHOLE

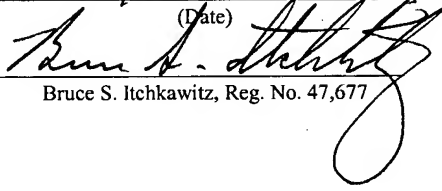
Group Art Unit : Unknown

Certificate of Mailing

I hereby certify that this correspondence and all marked attachments are being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on

6/29/04

(Date)


Bruce S. Itchkawitz, Reg. No. 47,677

TRANSMITTAL LETTER

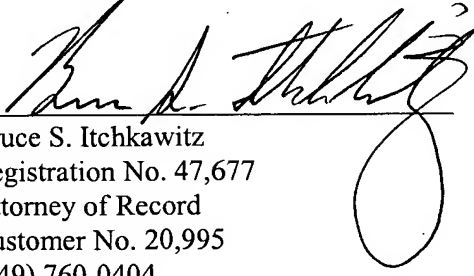
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Enclosed for filing in the above-identified application are:

- (X) An Information Disclosure Statement.
- (X) A PTO Form 1449 listing thirty-nine (39) references, with copies of six (6) references.
- (X) A return prepaid postcard.

The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment, to Account No. 11-1410.


Bruce S. Itchkawitz
Registration No. 47,677
Attorney of Record
Customer No. 20,995
(949) 760-0404

**INFORMATION DISCLOSURE STATEMENT**

Applicants : Roger Ekseth et al.
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Commissioner for Patents
P.O. Box 1450
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Dear Sir:

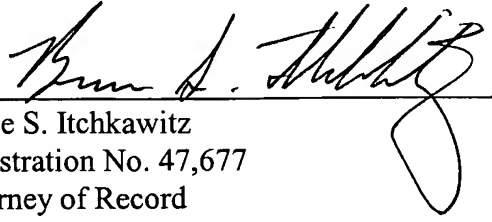
Enclosed is form PTO-1449 listing thirty-nine (39) references. Copies of disclosed U.S. patents and/or publications are not included pursuant to PTO waiver of the requirement under 37 C.F.R. § 1.98(a)(2)(i) for applications filed after June 30, 2003. Copies of other references, if listed, are enclosed.

This Information Disclosure Statement is being filed before the receipt of a first Office Action on the merits, and presumably no fee is required in accordance with 37 C.F.R. § 1.97(b)(3). If a first Office Action on the merits was mailed before the mailing date of this Statement, the Commissioner is authorized to charge the fee set forth in 37 C.F.R. § 1.17(p) to Deposit Account No. 11-1410.

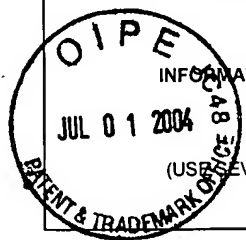
Respectfully submitted,

KNOBBE, MARTENS, OLSON & BEAR, LLP

Dated: 6/28/04

By: 
Bruce S. Itchkawitz
Registration No. 47,677
Attorney of Record
Customer No. 20,995
(949) 760-0404

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT (USE SEVERAL SHEETS IF NECESSARY)	ATTY. DOCKET NO. GYRO.008A	APPLICATION NO. 10/823,091
	APPLICANTS Roger Ekseth et al.	
	FILING DATE April 13, 2004	GROUP Unknown



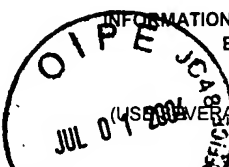
U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
	1	4,537,067	08/27/85	Sharp et al.			
	2	4,909,336	03/20/90	Brown et al.			
	3	4,987,684	01/29/91	Andreas et al.			
	4	5,099,927	03/31/92	Gibson et al.			
	5	5,432,699	07/11/95	Hache et al.			
	6	5,635,638	06/03/97	Geen et al.			
	7	5,635,640	06/03/97	Geen et al.			
	8	5,657,547	08/19/97	Uttecht et al.			
	9	5,806,195	09/15/98	Uttecht et al.			
	10	5,812,068	09/22/98	Wisler et al.			
	11	5,821,414	10/13/98	Noy et al.			
	12	5,842,149	11/24/98	Harrell et al.			
	13	5,912,524	06/15/99	Ohnishi et al.			
	14	6,021,377	02/01/00	Dubinsky et al.			
	15	6,044,706	04/04/00	Roh			
	16	6,089,089	07/18/00	Hsu			
	17	6,122,961	09/26/00	Geen et al.			
	18	6,145,378	11/14/00	MacRobbie et al.			
	19	6,173,773	01/16/01	Almaguer et al.			
	20	6,192,748	02/27/01	Miller			
	21	6,206,108 B1	03/27/01	MacDonald et al.			
	22	6,257,356 B1	07/10/01	Wassell			
	23	6,267,185 B1	07/31/01	Mougel et al.			
	24	6,281,618 B1	08/28/01	Ishitoko et al.			
	25	6,315,062 B1	11/13/01	Alft et al.			
	26	6,347,282 B2	02/21/02	Estes et al.			
	27	6,360,601 B1	03/26/02	Challoner et al.			
	28	6,381,858 B1	05/07/02	Shirasaka			

EXAMINER

DATE CONSIDERED

*EXAMINER: INITIAL IF CITATION CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP 609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED, INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.

FORM PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. GYRO.008A	APPLICATION NO. 10/823,091
 INFORMATION DISCLOSURE STATEMENT BY APPLICANT (USE SEVERAL SHEETS IF NECESSARY)		APPLICANTS Roger Ekseth et al.	
		FILING DATE April 13, 2004	GROUP Unknown

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
	29	2002/0056201	05/16/02	Dallas et al.			
	30	6,453,239 B1	09/17/02	Shirasaka et al.			
	31	6,484,818 B2	11/26/02	Alft et al.			
	32	6,655,460 B2	12/02/03	Bailey et al.			
	33	6,659,201 B2	12/09/03	Head et al.			

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	34	0 646 696 A1	09/13/94	Europe				

EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)	
	35	$\pm 150^\circ/\text{s}$ Single Chip Yaw Rate Gyro with Signal Conditioning, Analog Devices, ADXRS150, ©2003 Analog Devices, Inc.
	36	$\pm 300^\circ/\text{s}$ Single Chip Yaw Rate Gyro with Signal Conditioning, Analog Devices, ADXRS300.
	37	Geen, J., et al., <i>New iMEMS® Angular-Rate-Sensing Gyroscope</i> , Analog Dialogue, 2003, Vol. 37, No. 3, pp. 1-4.
	38	Teegarden, Darrell, et al., <i>How to Model and Simulate Microgyroscope Systems</i> , IEEE Spectrum, July 1998, Vol. 35, No. 7, pp. 66-75.
	39	Yazdi, N., et al., <i>Micromachined Inertial Sensors</i> , Proc. of the IEEE, August 1998, Vol. 86, No. 8, pp. 1640-1659.

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EXAMINER	DATE CONSIDERED
*EXAMINER: INITIAL IF CITATION CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP 609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED, INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.	